

# EAST SEARCH HISTORY

HITS	QUERY	DATABASE							
2	20020030582	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB							
12	("5550359" or ("5842182" or ("5959541" or ("6073841" or ("6075455" or ("6154727"))),PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB							
6	("5550359" or ("5842182" or ("5959541" or ("6073841" or ("6075455" or ("6154727"))),PN.	USPAT							
1	0560574.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB							
4	560574.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB							
1	(electronic adj1 collaborative adj1 education).ti.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB							
19	pare.in. and 382.clas.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB							
4	6618806	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB							
2	6618806.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB							
2	6119096.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB							
2	6092192.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB							

9	(US-6688891-\$ or US-5842182-\$ or US-5550359-\$ or US-6154727-\$ or US-6075455-\$ or US-5959541-\$ or US-6073841-\$).did. or (US-20020030582-\$).did. or (EP-560574-\$).did.	USPAT; US-PGPUB; EPO							
7	((US-6688891-\$ or US-5842182-\$ or US-5550359-\$ or US-6154727-\$ or US-6075455-\$ or US-5959541-\$ or US-6073841-\$).did. or (US-20020030582-\$).did. or (EP-560574-\$).did.) and (biometric or iris or irides or finger?print or fingerprint or (finger adj1 print))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB							
10	(attendance with time) same (biometric or iris or irides or finger?print or fingerprint or (finger adj1 print)) and 382.clas. and @ad<20000530	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB							
2	6643779.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB							
37	(time with attendance) and 382.clas.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB							
19190377	(time with attendance) and 382.clas. adn @ad<20000530	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB							
1470	time with attendance	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB							
118	(time with attendance) and ((terminal or node or client) with (report or log or account or history))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB							

0	((time with attendance) and ((terminal or node or client) with (report or log or account or history))) and @ad<20000530) and 382. clas.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB							
24	((time with attendance) and ((terminal or node or client) with (report or log or account or history))) and @ad<20000530	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB							
2	5337043.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB							
14	((US-5842182-\$ or US-550359-\$ or US-6075455-\$ or US-6618806-\$ or US-6119096-\$ or US-6092192-\$ or US-5959541-\$ or US-6643779-\$ or US-6119933-\$ or US-6073841-\$ or US-6688891-\$ or US-6154727-\$).did. or (US-20020030582-\$).did. or (EP-560574-\$).did.	USPAT; US-PGPUB; EPO							
4	((US-5842182-\$ or US-550359-\$ or US-6075455-\$ or US-6618806-\$ or US-6119096-\$ or US-6092192-\$ or US-5959541-\$ or US-6643779-\$ or US-6119933-\$ or US-6073841-\$ or US-6688891-\$ or US-6154727-\$).did. or (US-20020030582-\$).did. or (EP-560574-\$).did.) and poll\$5	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB							
1	((US-6119933-\$).did.	USPAT							
1	((US-6119933-\$).did.) and biometric	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB							

106	token near biometric	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB							
39	token near biometric and @ad<20000526	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB							
84	5280527.URPN.	USPAT							
84	5280527.URPN.	USPAT							
2	(biometric and (time with attendance) and (classroom or school or class?room or student)) and @ad<20000526	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB							
57	biometric and (time with attendance) and (classroom or school or class?room or student)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB							
163	(time with attendance) and (classroom or school or class?room or student)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB							
43	((time with attendance) and (classroom or school or class?room or student)) and @ad<20000526	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB							
1	(US-6073841-\$.did.	USPAT							
7	("4868376"   "4993068"   "5053956"   "571776"   "5932869"   "5965860"   "5979773").PN.	USPAT							
3	((US-6073841-\$ or US- 6173153-\$ or US-6633223- \$).did.	USPAT							
3	((US-6073841-\$ or US- 6173153-\$ or US-6633223- \$).did.) and time	USPAT							
1031	and attendance	USPAT							
3	((US-6073841-\$ or US- 6173153-\$ or US-6633223- \$).did.) and attendance	USPAT							

14	("4978305"   "5199068"   "5311570"   "5488356"   "5509083"   "5594806"   "5675627"   "5947747"   "5974034"   "6024287"   "6040783"   "6144848"   "6230970"   "6292092"), PN.	USPAT							
	0 6633223.URPN.	USPAT							
	0 6173153.URPN.	USPAT							
13	("3416243"   "3491464"   "4731525"   "4764120"   "4767335"   "5204813"   "5218535"   "5273437"   "5294229"   "5496175"   "5513994"   "5557553"   "5956696"), PN.	USPAT							
	1 ((US-5947747-\$).did.	USPAT							
	1 ((US-5947747-\$).did.) and (time or attendance)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB							
	1 ((US-5947747-\$).did.) and (biometric)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB							
19	(US-6154727-\$ or US- 6075455-\$ or US-6073841-\$ or US-5959541-\$ or US- 5842182-\$ or US-5550359-\$ or US-6688891-\$ or US- 6119096-\$ or US-6618806-\$ or US-6092192-\$ or US- 6643779-\$ or US-6119933-\$ or US-6175923-\$ or US- 6633223-\$ or US-6173153-\$ or US-5947747-\$).did. or (US- 20020030582-\$).did. or (EP- 560574-\$).did. or (US- 5280527-\$).did.	USPAT; US-PGPUB; EPO; DERWENT							

6	((US-6154727-\$ or US-6075455-\$ or US-6073841-\$ or US-5959541-\$ or US-5842182-\$ or US-5550359-\$ or US-6688891-\$ or US-6119096-\$ or US-6618806-\$ or US-6092192-\$ or US-6643779-\$ or US-6119933-\$ or US-6175923-\$ or US-6633223-\$ or US-6173153-\$ or US-5947747-\$).did. or (US-20020030582-\$).did. or (EP-560574-\$).did. or (US-5280527-\$).did.) and audit\$5	USPAT; US-PGPUB; EPO; DERWENT						
11	((US-6154727-\$ or US-6075455-\$ or US-6073841-\$ or US-5959541-\$ or US-5842182-\$ or US-5550359-\$ or US-6688891-\$ or US-6119096-\$ or US-6618806-\$ or US-6092192-\$ or US-6643779-\$ or US-6119933-\$ or US-6175923-\$ or US-6633223-\$ or US-6173153-\$ or US-5947747-\$).did. or (US-20020030582-\$).did. or (EP-560574-\$).did. or (US-5280527-\$).did.) and company	USPAT; US-PGPUB; EPO; DERWENT						
39	biometric with laptop	USPAT; US-PGPUB; EPO; DERWENT						
3	biometric with laptop and 382.clas. and @ad<20000526	USPAT; US-PGPUB; EPO; DERWENT						
3	biometric with laptop and 382.clas. and @ad<20000526	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB						
4	biometric same laptop and 382.clas. and @ad<20000526	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB						

4	biometric same laptop and 382.clas. and @ad<20000526	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB							
4	(biometric same laptop) and 382.clas. and @ad<20000526	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB							
19	(biometric and laptop) and 382.clas. and @ad<20000526	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB							
43	((biometric or fingerprint or finger?print or (finger adj1 print)) and laptop) and 382.clas. and @ad<20000526	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB							
21	((biometric or fingerprint or finger?print or (finger adj1 print)) same laptop) and 382.clas. and @ad<20000526	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB							
4	("5204896"   "5940526"   "5963438"   "6130811").PN.	USPAT							
22	((biometric or fingerprint or finger?print or (finger adj1 print)) same (laptop or lap?top)) and 382.clas. and @ad<20000526	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB							
45	((biometric or fingerprint or finger?print or (finger adj1 print)) and (laptop or lap?top)) and 382.clas. and @ad<20000526	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB							
16	((biometric or fingerprint or finger?print or (finger adj1 print)) and (pda or personal adj1 digital adj1 assistant)) and 382.clas. and @ad<20000526	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB							
19	(biometric or fingerprint or finger?print or (finger adj1 print)) and setlak.in. and 382.clas. and @ad<20000526	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB							

16	((biometric or fingerprint or finger?print or (finger adj'1 print)) and (pda or (personal adj'1 digital adj'1 assistant))) and 382.clas. and @ad<20000526	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB						
297	((biometric or fingerprint or finger?print or (finger adj'1 print)) and (pda or (personal adj'1 digital adj'1 assistant))) and @ad<20000526	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB						
24	(US-6092192-\$ or US-5959541-\$ or US-6119933-\$ or US-5842182-\$ or US-5947747-\$ or US-6688891-\$ or US-6119096-\$ or US-6175923-\$ or US-6173153-\$ or US-6154727-\$ or US-6633223-\$ or US-6088585-\$ or US-6075455-\$ or US-6618806-\$ or US-5550359-\$ or US-6073841-\$ or US-6643779-\$ or US-6509847-\$ or US-6628812-\$ or US-6016476-\$ or US-5828773-\$).did. or (US-20020030582-\$).did. or (EP-560574-\$).did. or (US-5280527-\$).did.	USPAT; US-PGPUB; EPO; DERWENT						



9 ((US-6092192-\$ or US-5959541-\$ or US-6119933-\$ or US-5842182-\$ or US-5947747-\$ or US-6688891-\$ or US-6119096-\$ or US-6175923-\$ or US-6173153-\$ or US-6154727-\$ or US-663223-\$ or US-6088585-\$ or US-6075455-\$ or US-6618806-\$ or US-5550359-\$ or US-6073841-\$ or US-6643779-\$ or US-6509847-\$ or US-6628812-\$ or US-6016476-\$ or US-5828773-\$).did. or (US-20020030582-\$).did. or (EP-560574-\$).did. or (US-5280527-\$).did.) and clock	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB						
48 ((biometric or fingerprint or finger?print or (finger adj1 print)) same clock) and 382.clas. and @ad<20000526	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB						
1 (US-20020030582-\$).did.	US-PGPUB						
1 ((US-20020030582-\$).did.) and audit	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB						
0 6175923.URPN.	USPAT						
23 ("4123747"   "4621334"   "5067162"   "5280527"   "5420924"   "5557665"   "5572597"   "5613012"   "5745555"   "5787154"   "5805686"   "5815252"   "5825871"   "5838812"   "5864613"   "5872834"   "5887140"   "5907597"   "5982913"   "6002784"   "6005963"   "6031942"   "6075876").PN.	USPAT						

74	fingerprint same button and 382.clas.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB							
45	(fingerprint same button and 382.clas.) and @ad<20000526	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB							
2	(US-6028950-\$ or US-6041134-\$).did.	USPAT							
2	((US-6028950-\$ or US-6041134-\$).did.) and (stored or memory)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB							
0	6175923.URPN.	USPAT							
23	("4123747"   "4621334"   "5067162"   "5280527"   "5420924"   "5557665"   "5572597"   "5613012"   "5745555"   "5787154"   "5805686"   "5815252"   "5825871"   "5838812"   "5864613"   "5872834"   "5887140"   "5907597"   "5982913"   "6002784"   "6005963"   "6031942"   "6075876").PN.	USPAT							
2	6591001.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB							
2	20020034321	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB							
3	6526160	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB							
3	6591001	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB							
2	5177802.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB							
26	5177802.URPN.	USPAT							

119 (fingerprint same switch and 382.clas.) and @ad<20000526	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB								
1475 time with attendance	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB								
21 (time with attendance) and (wi?fi or (wireless adj LAN) or "802") and @ad<20000526	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB								
1 (US-6236486-\$).did.	USPAT								
0 ((US-6236486-\$).did.) and biometric	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB								
0 ((US-6236486-\$).did.) and fingerprint	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB								
31 (US-6154727-\$ or US-6075455-\$ or US-6073841-\$ or US-5959541-\$ or US-5842182-\$ or US-5550359-\$ or US-6688891-\$ or US-6618806-\$ or US-6119096-\$ or US-6092192-\$ or US-6633223-\$ or US-6643779-\$ or US-6119933-\$ or US-6175923-\$ or US-6088585-\$ or US-6173153-\$ or US-5947747-\$ or US-6628812-\$ or US-6509847-\$ or US-5828773-\$ or US-6016476-\$ or US-6628757-\$ or US-6041134-\$ or US-6028950-\$ or US-6522773-\$ or US-6141436-\$).did. or (US-6697947-\$ or US-6236486-\$).did. or (US-20020030582-\$).did. or (EP-560574-\$).did. or (US-5280527-\$).did.	USPAT; US-PGPUB; EPO; DERWENT								

13	((US-6154727-\$ or US-6075455-\$ or US-6073841-\$ or US-5959541-\$ or US-5842182-\$ or US-5550359-\$ or US-6688891-\$ or US-6618806-\$ or US-6119096-\$ or US-6092192-\$ or US-6633223-\$ or US-6643779-\$ or US-6119933-\$ or US-6175923-\$ or US-6088585-\$ or US-6173153-\$ or US-5947747-\$ or US-6628812-\$ or US-6509847-\$ or US-5828773-\$ or US-6016476-\$ or US-6628757-\$ or US-6041134-\$ or US-6028950-\$ or US-6522773-\$ or US-6141436-\$).did. or (US-6697947-\$ or US-6236486-\$).did. or (US-20020030582-\$).did. or (EP-560574-\$).did. or (US-5280527-\$).did.) and ((real adj1 time) or real?time)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB						
2	4210899.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB						
0	4210899.pn. and ((real adj1 time) or real?time)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB						
0	4210899.pn. and ((real adj1 time) or real?time)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB						
305	(time with attendance) and ((real adj1 time) or real?time)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB						
130	(time with attendance) and ((real adj1 time) or real?time) and @ad<20000526	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB						

13 (time with attendance) and ((real adj1 time) or real?time) and @ad<20000526 and 382.clas.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB					
38 (time with attendance) same ((real adj1 time) or real?time) and @ad<20000526	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB					
326 (time adj attendance)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB					
6 ((time adj attendance) ) and ((time and attendance) same ((real adj1 time) or real?time)) and @ad<20000526	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB					

# EAST SEARCH TAGGED

patent #	type	pub date	title	class1	class2	inventor			
US 6154727 A	USPAT	20001128	Visit verification	705/3	455/456.1; 455/457; 705/2; 705/9	Karp, Edward W. et al.			
US 20020030582 A1	US-PGPUB	20020314	Integrating biometric devices in time and attendance applications	340/5.53	340/5.83	Depp, Mark et al.			
US 6075455 A	USPAT	20000613	Biometric time and attendance system with epidermal topographical updating capability	340/5.82	382/115; 382/124; 382/125; 382/126; 382/127	DiMaria, Peter C. et al.			
US 6073841 A	USPAT	20000613	System and method of tracking continuing education information using secure stored data devices	235/382	235/375; 235/380	Walton, Jane B.			
US 5959541 A	USPAT	19990928	Biometric time and attendance system with epidermal topographical updating capability	340/5.52	340/5.54; 340/5.6; 382/115; 382/124; 382/125; 382/126; 382/127	DiMaria, Peter C. et al.			
US 5842182 A	USPAT	19981124	Time and attendance event analysis and reporting	705/32	235/377; 705/11	Bonner, Michael D. et al.			
US 5550359 A	USPAT	19960827	Time and attendance system and method therefor	235/382	235/380	Bennett, Michael J.			
EP 560574 A2	EPO	19930915	Low cost method employing time slots for thwarting fraud in the periodic issuance of food stamps, unemployment benefits or other governmental human services.		382/115; 382/118	KUHNS, ROGER et al.			
US 6688891 B1	USPAT	20040210	Method and apparatus for an electronic collaborative education process model	434/365	434/307R	Sanford, Michael D.			

US 6618806 B1	USPAT	20030909	System and method for authenticating users in a computer network	713/186	709/225; 709/229; 713/200; 713/201; 713/202	Brown, Timothy J. et al.			
US 6119096 A	USPAT	20000912	System and method for aircraft passenger check-in and boarding using iris recognition	705/5	235/384; 382/117; 705/40	Mann, Stewart et al.			
US 6092192 A	USPAT	20000718	Apparatus and methods for providing repetitive enrollment in a plurality of biometric recognition systems based on an initial enrollment	713/186	382/115; 713/172; 713/182	Kanevsky, Dimitri et al.			
US 6633223 B1	USPAT	20031014	Wireless LAN scholastic tracking system	340/5.53	340/5.61; 382/115; 434/353	Schenker, Andrew J. et al.			
US 6643779 B1	USPAT	20031104	Security system with embedded HTTP server	713/201	709/230; 713/186	Leung, Brian et al.			
US 6119933 A	USPAT	20000919	Method and apparatus for customer loyalty and marketing analysis	235/380	235/381; 902/27	Wong, Earl Chang et al.			
US 5280527 A	DERWENT	19940118	Biometric token authorising access to host system e.g. for electronic banking - combines correlation factor and time-varying or challenge code to generate token for display to user, who enters token at access device for host system			EDWARDS, E et al.			
US 6175923 B1	USPAT	20010116	Secure system using images of only part of a body as the key where the part has continuously-changing features	713/186	382/124; 705/76; 713/170	Bailey, Kenneth S.			
US 6088585 A	USPAT	20000711	Portable telecommunication device including a fingerprint sensor and related methods	455/411	340/5.83; 379/93.03; 382/115; 382/124	Schmitt, John C. et al.			

US 6173153 B1	USPAT	20010109	Method and apparatus for taking school attendance	434/307R	434/109; 434/308; 705/32	Bittman, Dean			
US 5947747 A	USPAT	19990907	Method and apparatus for computer-based educational testing	434/354	380/251; 705/50	Walker, Jay S. et al.			
US 6628812 B1	USPAT	20030930	Fingerprint sensor package having enhanced electrostatic discharge protection and associated methods	382/124		Setlak, Dale R. et al.			
US 6509847 B1	USPAT	20030121	Pressure password input device and method	341/34	178/18.01; 340/5.51; 341/20; 341/22; 345/173; 382/124	Anderson, Glen J.			
US 5828773 A	USPAT	19981027	Fingerprint sensing method with finger position indication	382/126		Setlak, Dale R. et al.			
US 6016476 A	USPAT	20000118	Portable information and transaction processing system and method utilizing biometric authorization and digital certificate security	705/1	705/26; 705/42; 705/44; 705/65; 705/76; 713/186	Maes, Stephane Herman et al.			
US 6628757 B1	USPAT	20030930	Fingerprint-ID-activated message playback apparatus and method	379/67.1	379/93.03; 382/115; 713/186	Cannon, Joseph M. et al.			
US 6041134 A	USPAT	20000321	Ergonomic fingerprint reader housing	382/126	382/115; 382/124	Merjianian, John Michael			
US 6028950 A	USPAT	20000222	Fingerprint controlled set-top box	382/126	382/115; 382/124	Merjianian, John Michael			
US 6522773 B1	USPAT	20030218	Fingertip sensor with integrated key switch	382/124	340/5.83	Houdeau, Detlef			
US 6141436 A	USPAT	20001031	Portable communication device having a fingerprint identification system	382/124	340/5.74	Srey, Lena et al.			
US 6697947 B1	USPAT	20040224	Biometric based multi-party authentication	713/182	380/282; 380/285; 380/286; 713/155; 713/180; 713/186	Matyas, Jr., Stephen Michael et al.			



US 6236486 B1	USPAT	20010522	Data communication system for printer and handheld computer	398/129	398/117; 398/9; 400/88	Nocker, IV, William B.			
US 4210899 A	USPAT	19800701	Fingerprint-based access control and identification apparatus	382/125	340/5.53; 340/5.83; 382/127	Swonger, Claron W. et al.			
US 6330594 B1	USPAT	20011211	Multiple tier interfacing with network computing environment	709/219	709/203; 709/217	Swart, Marius			

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